

## ZS4 Screw Clamp Terminal Block Feed-through

<del>0\_v</del>



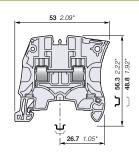
**4 mm²** *12 AWG* 

**5.2 mm** *0.205 in* Spacing

## **Features and Benefits**

Save space by connecting conductors up to 4 mm² (CB certified) 12 AWG in just 5.2 mm  $0.205\ in$  spacing.





3D CAD outline drawings available on	"Control Product 3D" po	ortai

<b>Ordering Details</b>	Туре	Order Code	EAN Code	Pack <sup>(ing)</sup>	Weight g (1 pce)
Grey	ZS4	1SNK 505 010 R0000	3472595050109	50	8.77
Blue	ZS4-BL	1SNK 505 020 R0000	3472595050208	50	8.77
Orange	ZS4-OR	1SNK 505 030 R0000	3472595050307	50	8.77
Yellow	ZS4-YL	1SNK 505 060 R0000	3472595050604	50	8.77
Green	ZS4-GN	1SNK 505 061 R0000	3472595050611	50	8.77
Red	ZS4-RD	1SNK 505 062 R0000	3472595050628	50	8.77
Purple	ZS4-PR	1SNK 505 063 R0000	3472595050635	50	8.77
Brown	ZS4-BR	1SNK 505 064 R0000	3472595050642	50	8.77
White	ZS4-WH	1SNK 505 065 R0000	3472595050659	50	8.77
Black	ZS4-BK	1SNK 505 066 R0000	3472595050666	50	8.77

Declarations and	l Certificates	Document Part Number				
<b>C€</b>	UE Directive	1SND 225 081 C1006				
CB	Third Party Certificate	1SND 161 017 A0201				
RoHS RoHS	RoHS	1SND 230 491 F0203				
·						
Atex Declaration	Atex Declaration	1SND 225 085 C1003				

Explosive Atmosphere: ATEX Classi	fication					
Group Category	Protection Method					
IM 2	F. Charles and Carlot					
I 2GD * Ex e: increased security						
* in the presence of explosive dust atmosphere, terminal blocks are to be installed in certified enclosure II 2D						



<b>General Information</b>						
The following information must	st be strictly adhered	d to in order to a	uarantee the term	inal block electri	cal, mechanical and envi	ronmental performance
Protection	,	IP 20	NEMA 1		,	·
Rail	ъ	DIN3-TH3	 5			
Wire stripping length		10.5 mm	0.413 in			
vvii o da ipping longar	+ +					
		Screw clan	np	Screw rail co		
		Flat screw	driver	,	,	
Operating tool	$\oslash$	3.5 mm	0.138 in			
Torque	(C)	0.6 Nm ± 0.1 Nm	5.31 lb.in ± 0.885 lb.in	± 0.1 Nm	± 0.885 lb.in	
Mechanical endurance of disconnect system		± U.I NIII	± 0.000 ID.III	± 0.1 Mill	± 0.003 ID.III	
Material Specification	ns					
Insulating material					Polyamide	
IRC					600 V	
Flammability	_			UL94	V0	
	_			<b>NF</b> F 16 101	I2F2	
		Needle	flame test IEC	60695-11-5	Compliant	
Connecting capacity	per clamp					
1 Rigid conductor				0.2-4 mm²		24-10 AWG
1 Flexible conductor with	nout ferrule			0.22-4 mm <sup>2</sup>		24-12 AWG
1 Flexible conductor with	n ferrule			0.22-4 mm <sup>2</sup>		24-12 AWG
Ferrule maximum outer o	diameter		∏Ø Max.	<b>4.7 mm</b>	0.185 in	
Multi Connecting cap	pacity per clam	ıp				
2 Rigid conductors				0.2-1 mm²		24-18 AWG
2 Flexible conductors wit	thout ferrule			0.22-1 mm <sup>2</sup>		24-18 AWG
2 Flexible conductors wit				0.22-1.5 mm <sup>2</sup>	2	24-16 AWG
Don't mix solid and flexi			•	_		
Don't mix solid or flexib						
The "Connecting capacit	y with ferrule " da	ata is guarante	eed with ABB c	rimping tool P	PS-3	
Cross section						
Rated cross section				4 mm²		12 AWG
Maximum Cross section		Manufac	cturer data	4 mm²	Manufacturer data	10 AWG
Gauge	A3-B3 / 3 mi	<b>m</b> / 0.118 in	/ IEC 60947-7	-1		
Electrical characteris	stics					
Current						
Rated current					IEC 60947-7-1	32 A
	Field a	and factory w	iring Cat.2		UL 1059	20 A
	Facto	ry wiring Cat.	1		UL 1059	
					CSA-C-22.2 n° 158	20 A
Rated short-time withsta	•	w)			N4 C	480 A
Short-time withstand cur					Manufacturer data	
	5 s 10 s				Manufacturer data  Manufacturer data	
	30 s				Manufacturer data	
	1 mn				Manufacturer data	
Rated short circuit withst					CSA-C-22.2 n° 158	
						I .
Max. current (45° temper		Max. cross se	ection (mm²)		Manufacturer data	32 A 4 mm <sup>2</sup>



Short Circuit Current Rating (SC	CR) SA UL 1	059 supplement	SCCR UL 1059
With the following configurations:			
_N	laximum voltag	e	
<u>s</u>	uitable conduc	tor wire range	
<u>F</u>	use rating		
<u>F</u>	use designatio	า	
<u>F</u>	use manufactu	rer name	
<u>F</u>	use type		
S	hort circuit curi	rent	
Voltage			
Rated voltage		IEC 60947-1	1000 V
Rated voltage		UL 1059	600 V
Use Group		UL 1059	С
Rated voltage		CSA-C-22.2 n° 158	600 V
Rated voltage Ex e		IEC/EN 60079-11	630 V
Rated impulse withstand voltage			8000 V
Dielectric test voltage			2200 V
Pollution degree		IEC 60947-1	3
Overvoltage category		IEC 60947-1	III
Dissipated power			
Maximum dissipated power at rated of	current	IEC	1 W
Rated power dissipation at an a	mbient temp	erature of 23 °C - IEC 60947-7-3	
Overload and short-circu Separate	uit protection arrangement		
Exclusive short-circu Separate	uit protection arrangement	لفاله القالم القامة ال	

Temperature range				
Ambient temperature min/max	Storage	Storage		-67 +230 F
	Installing		-5 +40 °C	-23 +104 F
	Service	IEC 60068-2-1	-55 +110 °C	-67 +230 F
		EN 60079-7	-55 +85 °C	

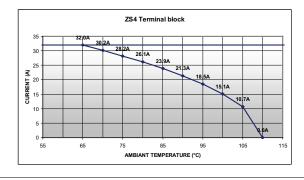
5 fuse blocks

Current Derating curve for continuous service temperature

Overload and short-circuit protection

Exclusive short-circuit protection Compound arrangement

Compound arrangement





<b>Environmental Characte</b>	ristics			
Additional climatic tests				
Dry heat		IEC 60068-2-2	Complia	nt
	Conditions	Temperature	+100 °C	
		Duration of test	96 h	
Cyclic damp heat		IEC 60068-2-30	Complia	nt
	Conditions	Temperature	+55 °C	
		Number of cycles	2	
Cold		IEC 60068-2-1	Complia	nt
	Conditions	Temperature	-40 °C	
		Duration of test	96 h	
<b>Z</b> /ABDM climatic sequence		IEC 60068-2-61	Complia	nt
	Conditions	Dry heat Duration of test / Temperature	16 h	+85 °C
		Cyclic damp heat Number of cycles / Temperature	1	+55 °C
		Cold Duration of test / Temperature	2 h	-25 °C
Corrosion				
Salt mist		IEC 60068-2-11	Complia	nt
	Conditions	Duration of test	96 h	
		Concentration	5 %	
SO2		ISO 6988	Complia	nt
	Conditions	Duration of test	48 h	
		Concentration	0.2 dm <sup>3</sup>	
Sulfur dioxide		IEC 60068-2-42		
	Conditions	Duration of test		
Hydrogen sulfur		IEC 60068-2-43		
, ,	Conditions	Duration of test		
Flowing mixed gas corrosion	test	IEC 60068-2-60		
	Conditions	Number of the test method		
		Duration of test		
Vibrations				
Vibrations		IEC 60068-2-6	Complia	nt
	Conditions	Frequency range	10-55 Hz	
		Number of cycles	10	
		Amplitude		
		Acceleration	10 m/s <sup>2</sup>	
Ramdom vibrations and clim	atic sequence	IEC 60068-2-64		
	Conditions	Duration of test		
		Frequency range		
		Acceleration		
		Climatic cycles		
		Step 1 -> Temperature / Duration of test		
		Step 2 -> Temperature / Duration of test		
		Temperature variation per minute		



	Description	Type	Order Code	Pack <sup>(ing)</sup>	Weight	Technical Datasheet
				pieces	<b>g</b> (1 pce)	PDF
1	End Stops	ВАМ3	1SNK 900 001 R0000	50	13.80	1SNK 160 026 D0201
2	End Sections	ES4	1SNK 505 910 R0000	20	2.18	1SNK 160 022 D0201
3	Jumper Bars	JB5-2	1SNK 905 302 R0000	50	1.30	1SNK 160 027 D0201
		JB5-3	1SNK 905 303 R0000	50	2.00	1SNK 160 027 D0201
		JB5-4	1SNK 905 304 R0000	50	2.70	1SNK 160 027 D0201
		JB5-5	1SNK 905 305 R0000	50	3.50	1SNK 160 027 D0201
		JB5-10	1SNK 905 310 R0000	30	7.10	1SNK 160 027 D0201
		JB5-50	1SNK 905 350 R0000	10	36.10	1SNK 160 027 D0201
1	Cross Spacing Jumpers	JB85-3	1SNK 900 603 R0000	10	2.80	1SNK 160 035 D0201
5	Circuit Separators	cs	1SNK 900 101 R0000	20	0.20	1SNK 160 018 D0201
		CS-R1	1SNK 900 103 R0000	20	5.20	1SNK 160 018 D0201
6	Test Adapters	TP2	1SNK 900 203 R0000	20	1.73	1SNK 160 036 D0201
		TP4	1SNK 900 205 R0000	20	2.42	1SNK 160 036 D0201
7	Test Connectors	TC5	1SNK 900 200 R0000	10	5.23	1SNK 160 042 D0201
		TC5-R1	1SNK 900 201 R0000	10	5.23	1SNK 160 042 D0201
3	Component Plugs	PG5-R2	1SNK 900 403 R0000	20	8.01	1SNK 160 039 D0201
)	Shield Connectors	SHBS	1SNK 900 600 R0000	20	3.50	1SNK 160 025 D0201
0	Protecting Covers	СО	1SNK 900 604 R0000	1	300.00	1SNK 160 020 D0201
		PL5	1SNK 900 618 R0000	20	1.50	1SNK 160 021 D0201
11	Protecting Cover Kits	ксо	1SNK 900 624 R0000	1	47,8	1SNK 160 028 D0201
2	Tools	PS-3	1SNK 900 650 R0000	1	380.00	1SNK 160 024 D0201
3	Terminal Block Markers	MC512	1SNK 140 000 R0000	22	0.06	1SNK 160 003 D0201
		PROCAP5	1SNK 900 609 R0000	20	0.70	1SNK 160 013 D0201
		UMH	1SNK 900 611 R0000	10	0.20	1SNK 160 001 D0201
		SAT5	1SNK 900 614 R0000	5	6.00	1SNK 160 013 D0201

